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Cryptography as an operating system service: A case study
Angelos D. Keromytis, Jason L. Wright, Theo De Raadt, Matthew Burnside

window

February 2006 ACM Transactions on Computer Systems (TOCS), Volume 24 Issue 1

Publisher: ACM Press

Full text available: pdf(669.12 KB) Additional Information: full citation, abstract, references, index terms

Cryptographic transformations are a fundamental building block in many security applications and protocols. To improve performance, several vendors market hardware accelerator cards. However, until now no operating system provided a mechanism that allowed both uniform and efficient use of this new type of resource. We present the OpenBSD Cryptographic Framework (OCF), a service virtualization layer implemented inside the operating system kernel, that provides uniform access to accelerator functio ...

Keywords: Encryption, authentication, cryptographic protocols, digital signatures, hash functions

² GPGPU: general purpose computation on graphics hardware

David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn

August 2004 ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04

Publisher: ACM Press

Full text available: pdf(63.03 MB) Additional Information: full citation, abstract, citings

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and plxel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

3 Just fast keying: Key agreement in a hostile internet

William Aiello, Steven M. Bellovin, Matt Blaze, Ran Canetti, John Ioannidis, Angelos D. Keromytis, Omer Reingold

May 2004 ACM Transactions on Information and System Security (TISSEC), Volume 7 Issue 2

Publisher: ACM Press

Full text available:

Additional Information: full citation, abstract, references, citings, index

pdf(324.39 KB)

terms

We describe Just Fast Keying (JFK), a new key-exchange protocol, primarily designed for use in the IP security architecture. It is simple, efficient, and secure; we sketch a proof of the latter property. JFK also has a number of novel engineering parameters that permit a variety of tradeoffs, most notably the ability to balance the need for perfect forward secrecy against susceptibility to denial-of-service attacks.

Keywords: Cryptography, denial-of-service attacks

4 Architectural Support for High Speed Protection of Memory Integrity and Confidentiality in Multiprocessor Systems

Weidong Shi, Hsien-Hsin S. Lee, Mrinmoy Ghosh, Chenghuai Lu

September 2004 Proceedings of the 13th International Conference on Parallel Architectures and Compilation Techniques PACT '04

Publisher: IEEE Computer Society

Full text available: pdf(255.33 KB) Additional Information: full citation, abstract

Recently there is a growing effort in both the architecture and the security community to create a hardware solution for authenticating system memory. As shown in the previous work, hardware-based memory authentication will become a vital component for creating future trusted computing environments and digital rights protection. Almost all these prior work have focused on authenticating memory exclusively owned by a single processing element. However, in today's computing platforms, memory is often ...

5 Cryptography and data security

Dorothy Elizabeth Robling Denning

January 1982 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available: pdf(19.47 MB)

Additional Information: full citation, abstract, references, citings, index

<u>terms</u>

From the Preface (See Front Matter for full Preface)

Electronic computers have evolved from exiguous experimental enterprises in the 1940s to prolific practical data processing systems in the 1980s. As we have come to rely on these systems to process and store data, we have also come to wonder about their ability to protect valuable data.

Data security is the science and study of methods of protecting data in computer and communication systems from unauthorized disclosure ...

6 A survey on peer-to-peer key management for mobile ad hoc networks

Johann Van Der Merwe, Dawoud, Dawoud, Stephen McDonald

April 2007 ACM Computing Surveys (CSUR), Volume 39 Issue 1

Publisher: ACM Press

Full text available: 🔁 pdf(872.71 KB) Additional Information: full citation, abstract, references, index terms

The article reviews the most popular peer-to-peer key management protocols for mobile ad hoc networks (MANETs). The protocols are subdivided into groups based on their design strategy or main characteristic. The article discusses and provides comments on the strategy of each group separately. The discussions give insight into open research problems in the area of pairwise key management.

Keywords: Mobile ad hoc networks, pairwise key management, peer-to-peer key management, security

Key management for encrypted broadcast



Avishai Wool

May 2000 ACM Transactions on Information and System Security (TISSEC), Volume 3 Issue 2

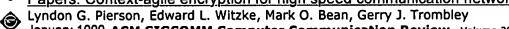
Publisher: ACM Press

Full text available: 🔁 pdf(220.36 KB) Additional Information: full citation, abstract, references, index terms

We consider broadcast applications where the transmissions need to be encrypted, such as direct broadcast digital TV networks or Internet multicast. In these applications the number of encrypted TV programs may be very large, but the secure memory capacity at the set-top terminals (STT) is severely limited due to the need to withstand pirate attacks and hardware tampering. Despite this, we would like to allow the service provider to offer different packages of programs to the users. A user ...

Keywords: conditional access, pay-per-view

8 Papers: Context-agile encryption for high speed communication networks



January 1999 ACM SIGCOMM Computer Communication Review, Volume 29 Issue 1

Publisher: ACM Press

Full text available: pdf(1.43 MB) Additional Information: full citation, abstract, references

Different applications have different security requirements for data privacy, data integrity, and authentication. Encryption is one technique that addresses these requirements. Encryption hardware, designed for use in high-speed communications networks, can satisfy a wide variety of security requirements if the hardware implementation is keyagile, key length-agile, mode-agile, and algorithm-agile. Hence, context-agile encryption provides enhanced solutions to the secrecy, interoperability, and ...

Key management for encrypted broadcast



Avishai Wool

November 1998 Proceedings of the 5th ACM conference on Computer and communications security CCS '98

Publisher: ACM Press

Full text available: 🔁 pdf(1.18 MB) Additional Information: full citation, references, citings, index terms

10 Public-key cryptography and password protocols



Shai Halevi, Hugo Krawczyk

August 1999 ACM Transactions on Information and System Security (TISSEC), Volume 2 Issue 3

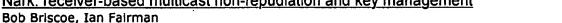
Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(275,84 KB) terms, review

We study protocols for strong authentication and key exchange in asymmetric scenarios where the authentication server possesses ~a pair of private and public keys while the client has only a weak human-memorizable password as its authentication key. We present and analyze several simple password authentication protocols in this scenario, and show that the security of these protocols can be formally proven based on standard cryptographic assumptions. Remarkably, our analysis shows optimal re ...

Keywords: dictionary attacks, hand-held certificates, key exchange, passwords, public passwords, public-key protocols

11 Nark: receiver-based multicast non-repudiation and key management



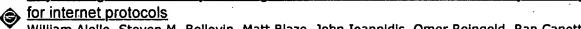
'99 Publisher: ACM Press

Full text available: 📆 pdf(168.86 KB) Additional Information: full citation, references, citings, index terms

November 1999 Proceedings of the 1st ACM conference on Electronic commerce EC

Keywords: Internet, audit trail, key management, multicast, non-repudiation, smartcard, watermark

12 Key management and key exchange: Efficient, DoS-resistant, secure key exchange



William Alello, Steven M. Bellovin, Matt Blaze, John Ioannidis, Omer Reingold, Ran Canetti, Angelos D. Keromytis

November 2002 Proceedings of the 9th ACM conference on Computer and communications security CCS '02

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(118.52 KB)

We describe JFK, a new key exchange protocol, primarily designed for use in the IP Security Architecture. It is simple, efficient, and secure; we sketch a proof of the latter property. JFK also has a number of novel engineering parameters that permit a variety of trade-offs, most notably the ability to balance the need for perfect forward secrecy against susceptibility to denial-of-service attacks.

Keywords: cryptography, denial of service attacks

13 Level set and PDE methods for computer graphics

David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker August 2004 ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04

Publisher: ACM Press

Full text available: <u>podf(17.07 MB)</u> Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (Iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

14 Improving key predistribution with deployment knowledge in static sensor networks

Donggang Liu, Peng Ning November 2005 ACM Transactions on Sensor Networks (TOSN), Volume 1 Issue 2

Publisher: ACM Press

Pairwise key establishment is a fundamental security service for sensor networks. However, establishing pairwise keys in sensor networks is a challenging problem,

Full text available: 🔁 pdf(639.52 KB) Additional Information: full citation, abstract, references, index terms

particularly due to the resource constraints on sensor nodes and the threat of node compromises. This article proposes to use both *predeployment and postdeployment knowledge* to Improve pairwise key predistribution in static sensor networks. By exploiting the predeployment knowledge, this article first develops two key predistrib ...

Keywords: Sensor networks, key management, key predistribution

15 A key-chain-based keying scheme for many-to-many secure group communication



Dijiang Huang, Deep Medhi

November 2004 ACM Transactions on Information and System Security (TISSEC),
Volume 7 Issue 4

Publisher: ACM Press

Full text available: pdf(311.81 KB) Additional Information: full citation, abstract, references, index terms

We propose a novel secure group keying scheme using hash chain for many-to-many secure group communication. This scheme requires a key predistribution center to generate multiple hash chains and allocates exactly one hash value from each chain to a group member. A group member can use its allocated hash values (secrets) to generate group and subgroup keys. Key distribution can be offline or online via the key distribution protocol. Once keys are distributed, this scheme enab ...

Keywords: Hash chain, key chain, many-to-many secure group communication, secure group communication

16 Applications and compliance: Virtual monotonic counters and count-limited objects



using a TPM without a trusted OS

Luis F. G. Sarmenta, Marten van Dijk, Charles W. O'Donnell, Jonathan Rhodes, Srinivas Devadas

November 2006 Proceedings of the first ACM workshop on Scalable trusted computing STC '06

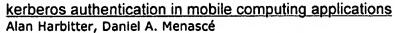
Publisher: ACM Press

Full text available: pdf(447.59 KB) Additional Information: full citation, abstract, references, index terms

A trusted monotonic counter is a valuable primitive that enables a wide variety of highly scalable offline and decentralized applications that would otherwise be prone to replay attacks, including offline payment, e-wallets, virtual trusted storage, and digital rights management (DRM). In this paper, we show how one can implement a very large number of *virtual* monotonic counters on an untrusted machine with a Trusted Platform Module (TPM) or similar device, without relying on a trusted OS ...

Keywords: certified execution, e-wallet memory integrity checking, key delegation, stored-value, trusted storage

17 Mobile Code and Distributed Systems: The performance of public key-enabled



November 2001 Proceedings of the 8th ACM conference on Computer and Communications Security CCS '01

Publisher: ACM Press

Full text available: pdf(419,31 KB)

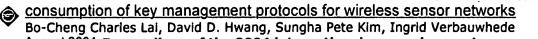
Additional Information: full citation, abstract, references, citings, index terms

Authenticating mobile computing users can require a significant amount of processing and communications resources-particularly when protocols based on public key encryption are

invoked. These resource requirements can result in unacceptable response times for the user. In this paper, we analyze adaptations of the public key-enabled Kerberos network authentication protocol to a mobile platform by measuring the service time of a "skeleton" implementation and constructing a closed queuing network m ...

Keywords: authentication, kerberos, mobile computing, performance modeling, proxy servers, public key cryptography

18 Wireless application drivers for low-power systems: Reducing radio energy



August 2004 Proceedings of the 2004 International symposium on Low power electronics and design ISLPED '04

Publisher: ACM Press

Full text available: The pdf(102.71 KB) Additional Information: full citation, abstract, references, index terms

The security of sensor networks is a challenging area. Key management is one of the crucial parts in constructing the security among sensor nodes. However, key management protocols require a great deal of energy consumption, particularly in the transmission of initial key negotiation messages. In this paper, we examine three previously published sensor network security schemes: SPINS and C&R for master-key-based schemes, and Eschenhaur-Gligor (EG) for distributed-key-based schemes. We then prese ...

Keywords: key management protocol, sensor network

19 A compiler for analyzing cryptographic protocols using noninterference

Antonio Durante, Riccardo Focardi, Roberto Gorrieri

October 2000 ACM Transactions on Software Engineering and Methodology (TOSEM),
Volume 9 Issue 4

Publisher: ACM Press

Full text available: 1 pdf(291.90 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

The Security Process Algebra (SPA) is a CCS-like specification language where actions belong to two different levels of confidentiality. It has been used to define several noninterference-like security properties whose verification has been automated by the tool CoSeC. In recent years, a method for analyzing security protocols using SPA and CoSeC has been developed. Even if it has been useful in analyzing small security protocols, this method has shown to be error-prone, as it requires the ...

Keywords: automatic verification, cryptographic protocols, noninterference, process algebra, verification tool

20 Cryptographic protocols/ network security: Efficient self-healing group key distribution



with revocation capability

Donggang Liu, Peng Ning, Kun Sun

October 2003 Proceedings of the 10th ACM conference on Computer and communications security CCS '03

Publisher: ACM Press

Full text available: pdf(237.61 KB)

Additional Information: full citation, abstract, references, citings, index terms

This paper presents group key distribution techniques for large and dynamic groups over unreliable channels. The techniques proposed here are based on the self-healing key distribution methods (with revocation capability) recently developed by Staddon et al.

[27]. By introducing a novel personal key distribution technique, this paper reduces (1) the communication overhead of personal key share distribution from O(t2log q) to O (tlogq), (2) the communication overhead of self-healing key ...

Keywords: group key distribution, key management, self-healing

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